



J-6 Information Operations

**Defense Logistics Management
Standards Office (DLMSO)**

**Supporting the Warfighter Today
and the
Future Logistics Enterprise of
Tomorrow**

**DLMS Migration Brief
For the Unique Item Tracking
Committee**



Business Rules and Standards

Purpose/Mission - Business Process Interoperability:

- **Facilitate enterprise integration and continuous process improvements to logistics management and operations by:**
 - **Developing business rules and implementation of DoD policy**
 - **Developing and managing the DoD logistics information exchange infrastructure**
 - **Publishing detailed procedures that identify who does what, when, and how along the DoD² supply**





Business Rules and Standards

Interoperability of what?

(1) Supply Chains

Commodities (Fuels, Ammo, etc.)

Weapon Systems

Others (Personnel, Health, etc.)

24 x 7

(2) Enterprise Services

Distribution

Disposal

Transportation

Acquisition

Finance

DAASC delivers the business rules, transactions & data standards
DAASC delivers the routing, translation, archiving

Challenge: To Connect Supply Chains & Enterprise Services on a DoD-wide Basis

Business Rules and Standards

- **Business Process:** An assemblage of business rules that collectively form a process -- *Physical*

Inventory Management

- **Business rule:** States what must or must not be done

If an NSN had activity today, report ending balance to ICP

- **Business Object:** A collection of data in a specified format

that launches a business process or reports process results

An order, inventory adjustment, request for payment, etc.



Business Rules and Standards

DLMSO Responsibility: DLMSO has the responsibility for managing the development and approval process for the logistics

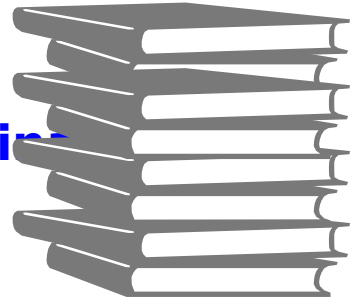
- **business process rules,**
- **business objects/ information exchanges, and**
(within the business process scope of the DoD 4000.25 series of manuals)
- **metadata** (within the Logistics Community of Interest (COI)).



Business Rules and Standards

Key DoD oversight policy:

- Wynne 22 Dec. 2003, Memo, Migrate to DLMS, Eliminate MILS
 - DoDD 8190.1, DoD Logistics Use of EDI Standards:
 - Assigns DLMSO as DoD Executive Agent for logistics data interchange
 - Establishes ANSI ASC X12 as DoD standard for logistics system interchanges:
 - All new systems
 - Major modifications to existing systems
 - DoDD 4140.1 Materiel Management Policy
 - Authorizes publication of DoD business rules and standards
 - DoD 4140.1-R Materiel Management Regulation
 - “Loaded” with DLMSO policy, procedure, and guidance
- Business rules and standard operational development and implementation are well grounded in DoD policy
- Prescribes logistics management policy,



Business Rules and Standards

DoD Policy → Business Rules → Standards

DoD 4140.1-R...
Ensure accurate property...records for the physical inventory are maintained in support of customers requirements and business by



DoD 4000.25-M, Vol 2 (28 pages of detailed business rules that support DoD policy)... C6.3.8.1 Requested Inventory. When the owner/manager has requested an unscheduled inventory...the owner/manager will

perform a follow-up inventory using DS-46P which is a Management Code X...from the DS-46P that is established...



DS-46P Supplement to Federal R. 46P Physical Inventory Request

846 Inventory Inquiry/Advice

Functional Group: IB

This DS-46P Standard for Title Use contains the format and establish the data contents of the Inventory Inquiry/Advice Transaction Set (46P) to be used within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used in the following ways: (1) for a seller of goods and services to provide inventory information to a prospective purchaser, with no obligation to the purchaser to accept these goods and services; (2) for a representative of a seller of goods and services to supply inventory information to that seller; (3) for one location to supply another location with inventory information; and (4) for an inquiry as to the availability of inventory with no obligation on the seller of goods and services to answer that inquiry.

Notes:

2.040 The REP tag contains serial number, lot number, and inventory date.

3.033 Number of line items (CTTH) is the summation of a number of LIN segments. If used, both total (CTTH) is the sum of the values of the quantities (QTY) of each QTY segment.

Federal Note:

1. Customer and manager may use this transaction set to request, request ahead, and cancel a release of inventory by a distribution agent or storage activity. Customer and manager may also use this transaction set to provide a distribution agent or storage activity with an inventory report. Inventory report for use with inventory physical inventory information. Customer and manager may use this transaction set to request inventory.

2. One use occurrence of this transaction set to transmit a single or multiple transactions.

3. DS-46P is used to provide the information to the Defense Logistics Management System (DLMS) Supplement in the Federal Implementation Convention (FIC) available at DLM. See (DS-46P) in the FIC. The DLMS Supplement provides specific business rules, conditions and definitions for the transaction set. See (DS-46P) in the FIC.

DLMS Note:

1. Distribution agent/storage activity use this transaction set to cancel a release of inventory by a distribution agent or storage activity. Distribution agent/storage activity use this transaction set to request a release of inventory by a distribution agent or storage activity.

2. One use occurrence of this transaction set to exchange information between a single owner/manager and a single or multiple distribution agent/storage activity, or between a single distribution agent/storage activity and a single or multiple owner/manager.

3. Owner/manager under the Defense Logistics Management System (DLMS) must reference the Data of Issue and Purchase Data (DLMS) and the accounting (DLMS) which can be found in the Defense Logistics Management Standards (DLMS) with the DS-46P in the FIC.

4. The DLMS Supplement contains:

a. Data associated with a DLMS transaction which may be used to support the receipt of automated processing system (DLMS) processing system. Components must coordinate requirements and data with DLMS prior to use.

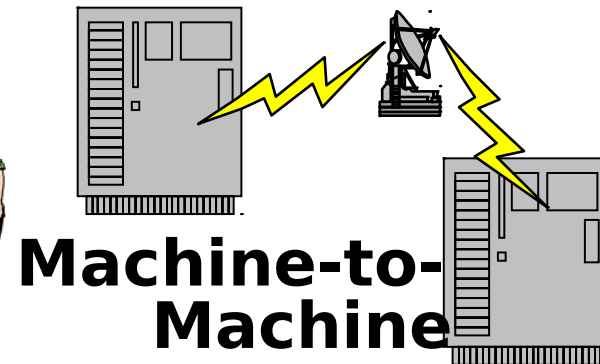
b. Data associated with an Electronic Change which may be used to support the receipt of automated processing system. Data may be used to support the receipt of automated processing system. Components must coordinate requirements with DLMS prior to use.

c. Defense Logistics Management System (DLMS) Data which may be used to support the receipt of automated processing system in a DLMS environment. Data may be used to support the receipt of automated processing system. Components must coordinate requirements with DLMS prior to use.

d. Data elements which may be used to support the receipt of automated processing system. Components must coordinate requirements with DLMS prior to use.

DS-46P Supplement

March 27, 2008



integration glue...defines who does what, to whom, when, and



Business Rules and Standards

What are the DLSS/MILS Transactions?

- **DoD unique EDI standard developed 40 years ago**
- **Fixed length (80 positions) transactions (over 500 types)**
- **Each transaction contains fixed length data fields**
- **Technically obsolete**
- **Serious constraint to business**



Business Rules and Standards

What are the **DLMS Transactions**?

- **Commercial EDI standard based transactions**
 - **ANSI ASC X12 implementation conventions**
 - **W3C compliant XML schemas**
- **57 X12 ICs and XML schemas support all MILS functionality**
- **Variable length transactions and data fields**



Standards

Receive, Validate, Edit, Route, &

DAASC delivers the ability to receive and transmit logistics data across various networks, supporting numerous protocols and formats. This communications interoperability minimizes the number of interfaces that the DoD Components must maintain for the exchange of logistics data. DAASC maintains a history of all transactions processed/routed to support supply chain analysis.

Customers

DoD

- Departments of:
 - Army
 - Navy
 - Air Force
 - Marine Corps
- USTRANSCOM
- Defense Agencies
- Intelligence
- DoD Dependent Schools
- NATO
- FMS Countries

97% of workload

Civilian

- Departments of:
 - Commerce
 - State
 - Justice
 - Transportation

3% of workload

- NASA
- GSA
- FAA
- VA
- FEMA
- USPS
- GAO
- CG

Transaction Volume (CY 2003): 4,185,551,967

CY 2002 - 3,360,356,729 DLSS/DLMS
CY 2001 - 3,145,906,094 DLSS/DLMS

193,235
Activities
WORLDWIDE

Suppliers

Defense
Logistics
Agency

Military
Services

General
Services
Admin.

Commercial
Suppliers

DAAS

Mapping
&
Translation
Services

Routing and
Transmission
Services

DAAS Transactions:

- DLSS (MILS)
- DLMS (X12)
- DLMS (XML)
- DLMS (XML)

- OFFICIAL REPOSITORY & DISTRIBUTION POINT FOR DoD DIRECTORIES
- SUPPORT SERVICE / AGENCY CONTINGENCY OPERATIONS



Business Rules and Standards

Key Aspects of Wynne Memo:

- Only the dates are new, basic policy has been in place since Dec. 1998
- Unique Item Identification (UID) was forcing function - UID prerequisites
 - Items must be marked with UID
 - *Need mechanism to move UID information among supply chain business systems*
 - Need UID usage business rules
- Key Policy/Dates:
 - 1 January 2004, No new or developing systems shall use MILS transactions
 - 31 December 2004, MILS transactions shall no longer be exchanged
 - 1 January 2005, Use only DLMS ASC X12 or equivalent XML schemas

• Key Deliverables/Dates



Supply Chain Transaction Flow

same information Different transport standards

```
graph LR; A[Provider/  
User] <--> B[IDOC]; B <--> C[ASC X12]; C <--> D[MILS]; D <--> E[XML]; E <--> F[User/  
Provider];
```

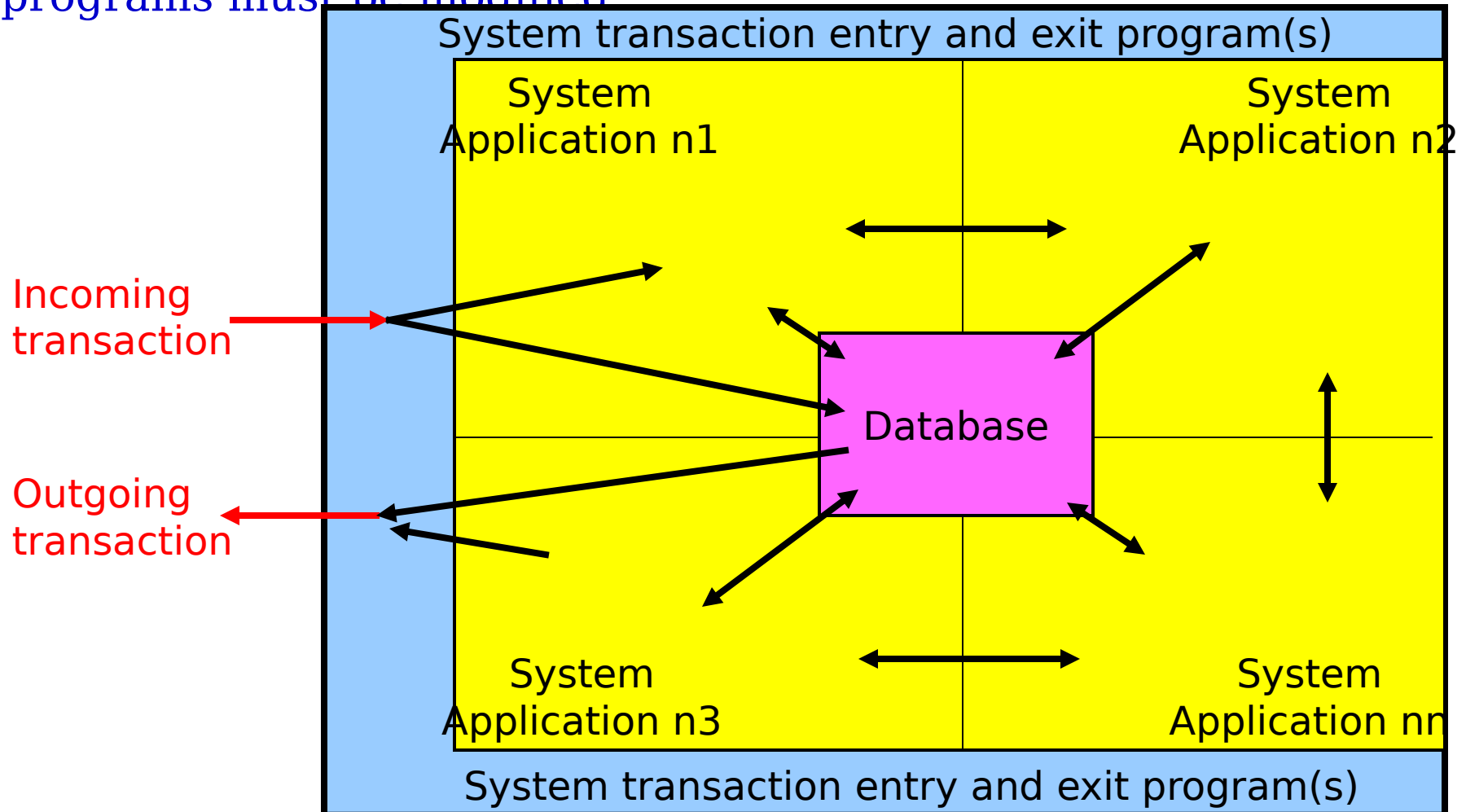
The diagram illustrates a sequence of four transport standards used for data exchange. It starts with a 'Provider/User' on the left and ends with a 'User/Provider' on the right. Between them are four standards: IDOC, ASC X12, MILS, and XML. Each standard is connected to the previous and next one by a double-headed arrow, indicating bidirectional communication. The standards are arranged in a horizontal line, with the arrows pointing both left and right between each adjacent standard.





Business Rules and

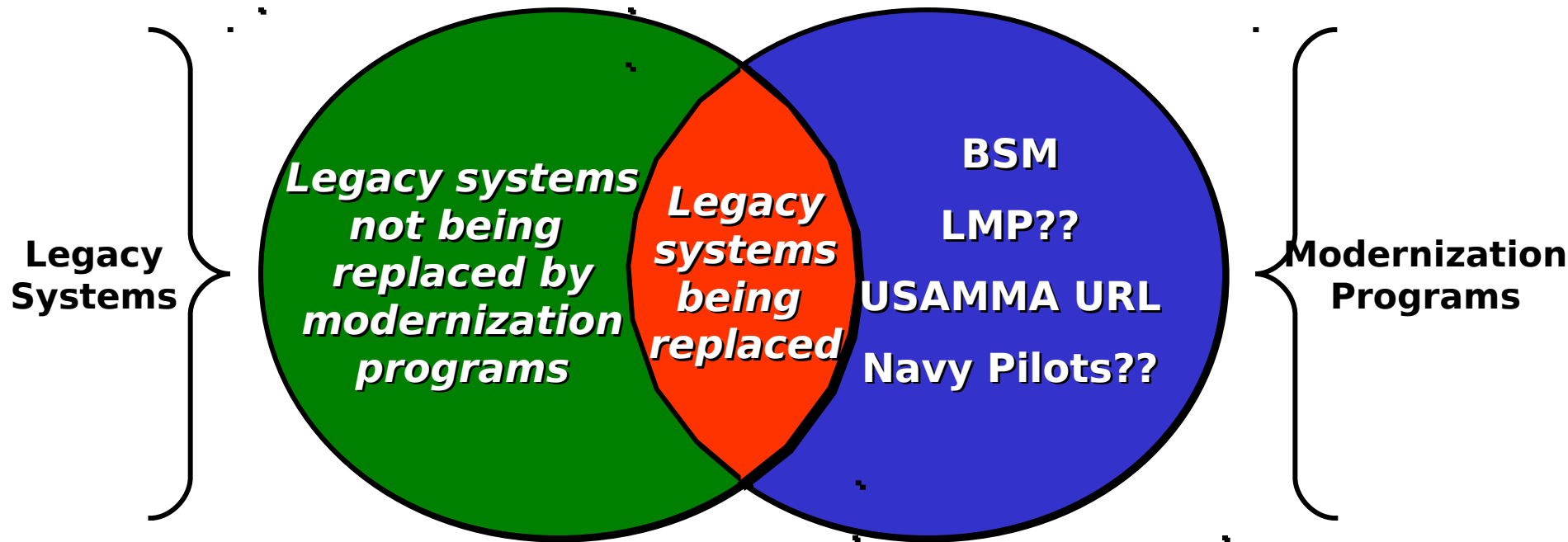
IMPACT ON TYPICAL SYSTEM - No Change to Database, applications logic, internal system messages; only the entry exit programs must be modified





Business Rules and Standards

The Dilemma:



2005 migration date applies to total systems universe - Component modernizations schedules will be adversely impacted

or

if modernization programs and legacy systems they replace are exempt
PLSS/MILS will be perpetuated until last legacy system is replaced



Business Rules and

Where Will The Heat Come From: The Issues

What is the policy for ending MILS with regard to Federal Civilian Security Assistance Customers?

The memo has no directive authority over these customers. Translation services will have to be continued for them until they migrate they'll be excluded from new processes.

What is the memo timeline and resources to accomplish.

We need to see the Component final migration plans - the Component offers of what they can do and think makes sense. We may need to issue policy clarification and/or waivers. At least we'll be on the correct path.

How do we force everyone to a standard transactional interface?



UID & DLMS MIGRATION WORKSHOP

WORKSHOP GOALS AND OUTCOMES

DLMS MIGRATION TRACK:

- **Provide Common Understanding of Requirement:**
 - **What is the Requirement?**
 - **Why Now?**
 - **How to Do It?**
 - **What Help is Available?**
 - **What are the Lessons Learned from Other**

Implementers?

- **Provide Briefing of Components' Draft Plans - Sharing of Approaches**
- **Address Issues and Concerns**
- **Determine Need for Follow-on Meeting**
- **Identify Next Steps**

Key DLMS Migration Questions & Issues

SCOPE

- **DoD Directive 8190.1:**
 - **Covers all Logistics Information Interchanges**
 - **Financial and Acquisition exchanges**
 - **Exchanges with Logistics systems are covered**
 - **Internal information exchanges are not covered**
- **DoD 4000.25 Series of Manuals:**
 - **Cover most Logistics Processes but not all**
 - **USTRANSCOM responsible for transportation (DTR)**
 - **DESC responsible for bulk petroleum (MILSPETS)**
 - **Cover some Financial and Acquisition Processes**
 - **Financial - Inter-fund Billing (MILSBILLS)**
 - **Acquisition - Post Award Contract Management (MILSCAP)**
 - **Bottom line - Systems currently using MILS move to DLMS**

- **FMC 6 - Federal Civil Agency Customer System 17 covered**

Key DLMS Migration Questions & Issues

Time, Cost, BCA

- **Policy Timeline**

- **Policy to Migrate to DLMS Established In Dec. 1998 by DRID #48**
- **AT&L Policy Memorandum Amplified DRID #48 Policy in Sept. 2000**
- **DoD Directive 8190.1 Codified Policy in May 2000**
- **AT&L December 22, 2003 Policy Memorandum, Sunset the MILS**

- **Component Final Migration Plans Due to Mr. Wynne's POC April 16**

- **POC will review plan time lines/legacy replacement schedules; and**
- **Cost estimates; and**
- **Issues raised - waivers/IOA request process;**
- **Make recommendations to Mr. Wynne by May 15, 2004**

Key DLMS Migration Questions & Issues

DLMS XML & DAASC MILS Translator

- **Why DLMS XML?**
 - **W3C Compliant**
 - **All MILS and DLMS X12 functionality incorporated**
 - **They are currently available and work**
 - **Provide interoperability to DLMS X12 and even to the MILS**
 - **No added development, maintenance, translation cost to user**
 - **DLMSO core mission is Logistics EDI Agent**
 - **DAASC core mission is translation among standards**
 - **Working through X12 Committee to develop longer term solution**
- **Will DAASC turn off the MILS translator 1 Jan 2009?**



UID & DLMS MIGRATION WORKSHOP

NEXT STEPS

- **POST Migration Workshop To DLMSO Web Site**
- **Components Finalize DLMS Migration Plans**
- **Review & Make Recommendations To Mr. Wynne**
- **Receive Mr. Wynne' Guidance on Corporate Plan**
- **Form Component DLMS Migration Help Group?**



Business Rules and

help is available to assist in migration

- **DLMSO & DAASC**
 - **Functional and technical consultation**
 - **Training**
 - **DAASC mappings between MILS and DLMS data**
 - **Test Transactions**
 - **Coordinate system-to-system testing**
- **DLA & USAMMA experience & 21**



Business Rules and

How To Find The DLMS Transactions

DLMSO Web Site PDF

DLMS X12 <http://www.dla.mil/j-6/dlmso/elibrary/TransFormats/x12>

DLMS XML Schemas

<http://www.dla.mil/j-6/dlmso/eLibrary/TransFormats/xml.asp>

DLMSO Web Site Links To:

DoD XML Repository <http://xml.dod.mil/xmlreg/user/index.cfm>

DLIS XML Resource Library (XRL) <https://www.dlis.dla.mil>



Business Rules and Standards

- **Wynne Memo:**
 - **Reaffirms policy established in December 1998**
 - **Requires all systems that previously used the MILS to use DLMS**
 - **New systems must be designed to DLMS beginning 1 Jan 04**
 - **Legacy systems must be modified accept, process and produce only DLMS**
vice MILS transactions beginning 1 Jan 05
- **Some systems are successfully using DLMS today**
(not mission impossible)
 - **DLA's implementation of the SAP ERP uses the DLMS ASC X12**